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IEG/OD/TPB-163/71
9 December 1971

MEMORANDUM FOR: Chief, Test and Evaluation Branch, ESD
THROUGH : Chief, Technical Planning Branch, OD
SUBJECT : Evaluation of [] Microscope Eye Pieces

25X1

1. Request that TEB test and evaluate a pair of new 10XWF-23 microscope lenses produced by [] These lenses should be compared to the 10S tilt top lenses currently used with the [] Zoom 240 microstereoscope and with the 10XWF lenses supplied with the Zoom 70. All three of these lenses should be evaluated using a Zoom 240 pod and all of the various lens combinations available (.43 stereo, .5 mono, 1X stereo, 2X stereo and 2X mono lenses).

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2. Consideration should be given to the following questions while evaluating the lenses:

a. What is the resolution on and off axis of the three types of lenses?

b. How do the three types of lenses rank considering their relative light transfer characteristics?

c. What is the measured eye relief of the three lenses?

d. How do the three types of lenses rank considering their field of focus flatness in both mono and stereo viewing modes?

e. Determine if possible if one lens might cause more eye-strain than another and rank them?

f. How compatible are the 10XWF and 10XWF-23 lenses with the Zoom 240 microstereoscope?

Declass review by NGA/DoD

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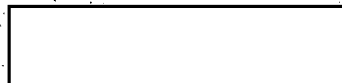
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3. Test lenses will be provided to TEB by TPB.



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Distribution:

Orig. & 1 - Addressee
1 - NPIC/IEG/OD
2 - NPIC/IEG/OD/TPB

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